

ABSTRACT OF THE DISCLOSURE

According to the present invention, a cooler for electronic devices comprises a heat exchange element, a blower with a radial type impeller, and an electric drive. The heat exchange element comprises heat exchanging means made on one surface of said heat exchange element while its other surface provides thermal contact with a heat-radiating means. The radial type impeller has a shroud with a flat surface from one side, a hub and brackets and a central inlet between the shroud and the hub, the brackets connect the hub with the shroud. The radial type impeller is positioned on the heat exchange element so that the heat exchanging means being surrounded by the radial type impeller and a cooling gas flows to the radial type impeller from the central inlet through the heat exchanging means. The electric drive comprises a magnetic rotor and a stator; the magnetic rotor is a flat disk - type rotor comprises a central hole inside the disk and circumferential arrayed like poles, the stator comprises circumferential arrayed coils, axis of said coils are parallel to the axis of rotation, the coils mounted around of the circumferential arrayed like poles. The magnetic rotor is placed on the shroud of the radial type impeller and connect with the shroud, the shaft of the electric drive is located inside the hub of the radial type impeller, and the central hole of the flat disk - type rotor is substantially coincided with the central inlet.

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